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Attorney Docket No.: 021288-002710US

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

_{Зу:___}

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hong Liu et al.

Application No.: not yet assigned

Filed: March 23, 2004

For: INHIBITORS OF CATHEPSIN S

Examiner: not yet assigned

Art Unit: not yet assigned

INFORMATION DISCLOSURE

STATEMENT UNDER 37 CFR §1.97 and

§1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of Reference Nos. 21-37 are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

Hong Liu, et al. Filed: March 23, 2004

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representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that <u>no fee is required</u> for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Joseph R. Snyder Reg. No. 39,381

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, Eighth Floor San Francisco, California 94111-3834

Tel: 925-472-5000 Fax: 925-472-8895

JS:mrv 60172197 v1

Substitu	te for form 1449A/PT	ю		Complete if Known			
				Application Number	not yet assigned		
INFO	DRMATION	l DI	SCLOSURE	Filing Date	March 23, 2004		
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Liu, Hong		
				Art Unit	not yet assigned		
	(use as many she	eets a	s necessary)	Examiner Name	not yet assigned		
Sheet	1	of	3	Attorney Docket Number	021288-002710US		

				U.S. I	PATENT DO	CUME	NTS+		-	
		Document Numi	her							
Examiner Initials*	Cite No.¹ Number Kind Code² (if known)		Publication Date MM-DD-YYYY		Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
	1	US-4,499,29	95	02-	12-1985		Mueller et al.			
	2	US-5,374,62	23	12-20-1994		Zi	mmerman et al.			
	3	US-5,574,06	54	11-	12-1996		Shibata et al.			
	4	US-5,691,36	58	11-	25-1997		Peet et al.			
	5	US-5,723,46	69	03-	03-1998		Shibata et al.			
	6	US-5,849,7	11	12-	15-1998		Tung et al.			
	7	US-5,858,98	32	01-	12-1999		Tung et al.			, ,
	8	US-5,916,88	37	06-	29-1999		Singh et al.			
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	10	US-6,004,93	33	12-	21-1999	İ	Spruce et al.			
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•	15	US-6,331,54	42 B1	12-	18-2001		Carr et al.			
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	18	US-6,395,89	97 B1	05-	28-2002					
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	20	US-6,455,50	02 B1	09-	24-2002		Bryant et al.			
				FOREIG	SN PATENT	DOCU	MENTS			
		Fore	ign Patent Docum	ent					Pages, Columns, Lines, Where	
Examiner Initials*			Kind Code ⁸	Publication Date Name Name Name Name Name Name Name Nam		Name of Patentee o Cited Docu		Relevant Passages or Relevant Figures Appear	T ⁶	
	21	wo	98/00171	A2	01-08-19	98	Redcell Canada In	IC.	1	
	22	wo	00/51998	A1	09-08-20	00	Boehringer Ingelhe Pharmaceuticals, I			
	23	wo	01/09110	A1	02-08-20	01	Boehringer Ingelhe Pharmaceuticals,	inc.		
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	25	wo	02/14314	A2	02-21-20		Inc.	•		<u> </u>
	26	WO	02/14315	A2	03-32-20		Ortho Mobioil Pharmacoutical			
	27	wo	02/14317	A2	02-21-2002		Inc.			
	28	wo	02/051983	A2	07-04-20		Celera			
	29	WO	02/070519	A1	09-12-20		PE Corporation			
	30	wo	98/50534	A 1	11-12-19	98	Smithkline Beecha	am Corp.	1	

Examiner Signature Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional).

Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04.

Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

Applicant is to place a check mark here if English language Translation is attached.

60172197 v1

Substitute for form 1449A/PTO	Complete if Known			
	Application Number	not yet assigned		
INFORMATION DISCLOSURE	Filing Date	March 23, 2004		
STATEMENT BY APPLICANT	First Named Inventor	Liu, Hong		
	Art Unit	not yet assigned		
(use as many sheets as necessary)	Examiner Name	not yet assigned		
Sheet 2 of 3	Attorney Docket Number	021288-002710US		

U.S. PATENT DOCUMENTS+											
		Document Nu	ımber								
Examiner Initials*	Cite No.1						Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
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·	34	wo	03/013518	A1	02-20-20	03	Smithkline Beechar	n Corp.			
	35	wo	01/09110	A1	02-08-20	01	Boehringer Ingelhe Pharmaceuticals, Ir	im nc.			
	36	wo	03/020287	A2	03-13-20	03	Novartis AG				

Examiner	Date	
Signature	Considered	
Oignature	Considered	

Substitute f	or form 1449B/PTC)		Complete if Known				
INITOI	ORA A TION	DIC	CLOCUDE	Application Number	not yet assigned			
			CLOSURE	Filing Date	March 23, 2004			
STAT	EMENTB	ΥA	PPLICANT	First Named Inventor	Liu, Hong			
				Art Unit	not yet assigned			
(u	se as many she	ets as	necessary)	Examiner Name	not yet assigned			
Sheet	3	of	3	Attorney Docket Number	021288-002710US			

	NON PATENT LITERATURE DOCUMENTS								
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2						
	37	BANIA, J. et al.: "Human cathepsin S, but not cathepsin L, degrades efficiently MHC class II-associated invariant chain in nonprofessional APCs" PNAS; Vol. 100, No. 11; pp. 6664-6669 (May 27, 2003)							
			<u> </u>						
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Examiner	Date		
Signature	Consi	dered	

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Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.